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21 Authentication and authorization: Securing passwords against dictionary attacks

Benny Pinkas, Tomas Sander

November 2002 Proceedings of the 9th ACM conference on Computer and communications

Publisher: ACM Press

Full text available: pdf(216.72 KB)

Additional Information: full citation, abstract, references, c

The use of passwords is a major point of vulnerability in computer security, as passwords are of running dictionary attacks. Passwords remain the most widely used authentication method despatchentication is clearly a practical problem. From the perspective of a service provider this proconstraints such as the available hardware and software infrastructures. From a user' ...

22 A hash code method for detecting and correcting spelling errors

۱

M. Mor, A. S. Fraenkel

December 1982 Communications of the ACM, Volume 25 Issue 12

Publisher: ACM Press

Full text available: pdf(458.71 KB)

Additional Information: full citation, abstract, references, c

The most common spelling errors are one extra letter, one missing letter, one wrong letter, or t exchange, and rotation operators are defined which detect and "mend" such spelling errors and three operators essentially delete a letter of a word, exchange two adjacent letters, and rotate be used in conjunction with hashing, thus permitting very ...

Keywords: deletion, dictionary, exchange, rotation, spelling, spelling errors

23 Word association norms, mutual information, and lexicography

Kenneth Ward Church, Patrick Hanks

June 1989 Proceedings of the 27th annual meeting on Association for Computational

Publisher: Association for Computational Linguistics

Full text available: pdf(648.66 KB) Publisher Site

Additional Information: full citation, abstract, references, c

The term *word association* is used in a very particular sense in the psycholinguistic literature. ((than normal to the word "nurse" if it follows a highly associated word such as "doctor.") We will statistical description of a variety of interesting linguistic phenomena, ranging from semantic re word/content word) to lexico-syntactic co-occurrence constraints betw ...

24 Departments: Interview: A Conversation with Wayne Rosing

David J. Brown

September 2003 Queue, Volume 1 Issue 6

Publisher: ACM Press

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Full text available: pdf(400.58 KB) html(32.12 KB)

Additional Information: full citation, abstract, index terms

How the web changes the way developers build and release software

25 Personal information management: Peripheral display of digital handwritten notes

Gary Hsieh, Kenneth Wood, Abigail Sellen

April 2006 Proceedings of the SIGCHI conference on Human Factors in computing sys

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

We present a system for the peripheral display of digital handwritten notes, motivated by the jc to their notes and that these notes often contain useful information. We describe the user-led d paper prototypes, and interactive prototypes. A preliminary field trial of the system indicates th low-distraction reminding and for serendipitous idea generation. These ...

Keywords: Tablet PC, ambient display, digital ink, handwritten notes, peripheral display, remir

²⁶ Integrating diverse knowledge sources in text recognition

Sargur N. Srihari, Jonathan J. Hull, Ramesh Choudhari

January 1983 ACM Transactions on Information Systems (TOIS), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(877.35 KB) Additional Information: full citation, references, citings, index terms

27 Voice response systems

D L. Lee, F H. Lochovsky

December 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(2.22 MB)

Additional Information: full citation, references, index term

28 Applications of a lexicographical data base for German

Wolfgang Teubert

July 1984 Proceedings of the 10th international conference on Computational linguis meeting on Association for Computational Linguistics

Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: Publisher Site Additional Information: full citation, abstract, references

The Institut für deutsche Sprache recently has begun setting up a LExicographical DAta Base fo improve efficiency in the collection, analysis, ordering and description of language material by forcer corpora and to word articles within machine readable dictionaries and by providing a frame to sufficient function for the set of th

29 Forth report: Forth and AI revisited: BRAIN.FORTH

Paul Frenger

December 2004 ACM SIGPLAN Notices, Volume 39 Issue 12

Publisher: ACM Press

Full text available: pdf(140.53 KB)

Additional Information: full citation, abstract, references

Six years ago in this journal we discussed the work of Arthur T. Murray, who endeavored to exprogramming language [1]. His creation, which he called MIND.FORTH, was interesting in its ab form: subject-verb-object. It also had the capacity to learn new things and to form mental asso memories. In the intervening years, Mr. Murray has continued to develop his MIND.F ...

30 Estimating and improving the quality of information in a MIS

Richard C. Morey

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May 1982 Communications of the ACM, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(586.44 KB)

Additional Information: full citation, abstract, references, c

Most discussions of MIS's assume that the information in the records is error-free although it is because of delays in processing times, lengthy correction times, and, overly or insufficiently stri implement data edits and correction procedures tailored to the degree of accuracy needed, this between three common measures of data quality. The MIS addressed ...

Keywords: cost-effectiveness, edits, errors, estimation, processing, transactions, turnaround t

31 Authors

Rosalie Steier

March 1986 Communications of the ACM, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(209,49 KB)

Additional Information: full citation, index terms

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Technique for automatically correcting words in text

Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB)

Additional Information: full citation, abstract, references,

Research aimed at correcting words in text has focused on three progressively more difficult pro word error correction; and (3) context-dependent work correction. In response to the first prob analysis techniques have been developed for detecting strings that do not appear in a given wo variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling processing models, neural net classifiers, spell checking, spelling error detection, spelling error recognition and correction

Computer programs for detecting and correcting spelling errors

James L. Peterson

December 1980 Communications of the ACM, Volume 23 Issue 12

Publisher: ACM Press

Full text available: pdf(1.25 MB)

Additional Information: full citation, abstract, references,

With the increase in word and text processing computer systems, programs which check and cc common. Peterson investigates the basic structure of several such existing programs and their when this type of program is created. The basic framework and background necessary to write

Keywords: spelling, spelling correction, spelling dictionary, spelling programs

Authentication and signature schemes: Print signatures for document authentication

Baoshi Zhu, Jiankang Wu, Mohan S. Kankanhalli

October 2003 Proceedings of the 10th ACM conference on Computer and communication

Publisher: ACM Press

Full text available: pdf(646.81 KB)

Additional Information: full citation, abstract, references,

We present a novel solution for authenticating printed paper documents by utilizing the inheren printing process. For a document printed by a laser-printer, we extract the unique features of tl The shape profiles of this content are used as the feature to represent the uniqueness of that p. some important document content is then captured as the print signa ...

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Keywords: authenticity, laser printer, originality, print signature

4 Cross-lingual information retrieval: Probabilistic structured guery methods

Kareem Darwish, Douglas W. Oard

July 2003 Proceedings of the 26th annual international ACM SIGIR conference on Re

Publisher: ACM Press

Full text available: pdf(301.72 KB)

Additional Information: full citation, abstract, references,

Structured methods for query term replacement rely on separate estimates of term tes of repla significantfrequency and document frequency to compute a weight for each query term. This pa techniques and introduces three new variants that leverage estima improvements in retrieval el retrieval and for retrieval based on optical character recognition when replacement probabilit ...

Keywords: CLIR, OCR, arabic, structured queries, term replacement

5 UNIX as an environment for non-UNIX software development: a case history

Jean Renard Ward

July 1985 ACM SIGSOFT Software Engineering Notes, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(781.83 KB)

Additional Information: full citation, abstract

Many of the back issues of SEN contain articles about software development environments and an example of a good software development environment. For many developers still struggling and the like, UNIX still represents a dreamed-of state-of-the-art. Many of the more enhanced e like system, especially for graphics-based environments like those offered ...

6 Document structure and content analysis 2: A fast orientation and skew detection algorithm Bruno Tenório Ávila, Rafael Dueire Lins

November 2005 Proceedings of the 2005 ACM symposium on Document engineering DocEi

Publisher: ACM Press

Full text available: pdf(509.46 KB)

Additional Information: full citation, abstract, references,

Very often in the digitization process, documents are either not placed with the correct orientat original image axis. These factors make more difficult the visualization of images by human use automatic image recognition, degrade the performance of OCR tools, increase the space needed algorithm for orientation and skew detection for complex monochroma ...

Keywords: monochromatic document image, orientation and skew detection

7 WebStickers: using physical tokens to access, manage and share bookmarks to the Web Peter Ljungstrand, Johan Redström, Lars Erik Holmquist

April 2000 Proceedings of DARE 2000 on Designing augmented reality environments

Publisher: ACM Press

Full text available: pdf(2.35 MB)

Additional Information: full citation, abstract, references,

In the WebStickers system, where barcode stickers may be attached to physical objects making convenient way to the user. Using readily available technology, i.e., standard barcode readers a take advantage of their physical environment when organizing and sharing bookmarks. Starting driven point of view, we discuss how the affordances of physical t ...

Keywords: barcodes, bookmark management, information workspaces, physical tokens, tangil

Protection of intellectual property on the national information infrastructure Nancy J. Wahl February 1996 Proceedings of the symposium on Computers and the quality of life Results (page 1): hardcopy document OCR & print format acquisition +OCR pri... Page 3 of 5

Publisher: ACM Press

Full text available: pdf(518.80 KB)

Additional Information: full citation, references, index terms

9 Enhancing a digital book with a reading recommender

Allison Woodruff, Rich Gossweiler, James Pitkow, Ed H. Chi, Stuart K. Card

April 2000 Proceedings of the SIGCHI conference on Human factors in computing sys

Publisher: ACM Press

Full text available: pdf(1.18 MB)

Additional Information: full citation, abstract, references,

Digital books can significantly enhance the reading experience, providing many functions not average particular augmentation of digital books that provides readers with customized recommendation spreading activation over text and citation data to generate useful recommendations. Our findir corpus, spreading activation over text is more useful than citation d ...

Keywords: 3D book, bibliometrics, degree of interest, information visualization, recommendati

10 A self-organized file cabinet

🙈 Dawn Lawrie, Daniela Rus

November 1999 Proceedings of the eighth international conference on Information and kn

Publisher: ACM Press

Full text available: pdf(1.48 MB)

Additional Information: full citation, abstract, references,

The self-organizing file cabinet is an information retrieval system associated with a user's physi with electronic information about the papers in it. It can remember, organize, update, and help file cabinet. The system consists of a module for extracting electronic information about the papersenting and storing this information in mu ...

11 Document expansion for speech retrieval

Amit Singhal, Fernando Pereira

August 1999 Proceedings of the 22nd annual international ACM SIGIR conference on R

retrieval

Publisher: ACM Press

Full text available: pdf(253.45 KB)

Additional Information: full citation, references, citings, ir

12 "Is this document relevant?...probably": a survey of probabilistic models in information retr

Fabio Crestani, Mounia Lalmas, Cornelis J. Van Rijsbergen, Iain Campbell December 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(265.85 KB)

Additional Information: full citation, abstract, references,

This article surveys probablistic approaches to modeling information retrieval. The basic concep retrieval are outlined and the principles and assumptions upon which the approaches are based the development of IR are described, classified, and compared using a common formalism. New research are described.

Keywords: information retrieval, probabilistic indexing, probabilistic modeling, probabilistic ret

13 <u>Document engineering (DE): Editorial message: special track on document engineering</u>

Rafael Dueire Lins

March 2005 Proceedings of the 2005 ACM symposium on Applied computing SAC '05

Publisher: ACM Press

Full text available: pdf(147.62 KB)

Additional Information: full citation, abstract

Document Engineering is a discipline within computer science that investigates systems for doc

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engineering is concerned with principles, tools and processes that improve our ability to create, documents. The fields of document recognition and retrieval have grown rapidly in recent years emergence of new application areas such as the World Wide Web (WWW), digital libra ...

14 A comment on English neologisms and programming language keywords

Caroline M. Eastman

December 1982 Communications of the ACM, Volume 25 Issue 12

Publisher: ACM Press

Full text available: pdf(351.48 KB)

Additional Information: full citation, abstract, references,

The choice of keywords in the design of programming languages is compared to the formation of Examination of keywords in high-level programming languages shows that they are formed using English. The use of mirror words as closing keywords is a conspicuous exceptions.

Keywords: keywords, natural language, neologisms

15 The impact on retrieval effectiveness of skewed frequency distributions

Mark Sanderson, C. J. Van Rijsbergen

October 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(145,10 KB)

Additional Information: full citation, abstract, references,

We present an analysis of word senses that provides a fresh insight into the impact of word am broader implications for other processes of information retrieval. Using a methodology of formit pseudowords, and through reference to other researchers' work, the analysis illustrates that the senses of a word plays a strong role in ambiguity's impact of effe ...

Keywords: pseudowords, word sense ambiguity, word sense disambiguation

16 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín September 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(916.04 KB)

Additional Information: full citation, abstract, references,

The problem of searching the elements of a set that are close to a given query element under s applications in many branches of computer science, from pattern recognition to textual and mu the rather general case where the similarity criterion defines a metric space, instead of the mor have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

17 Undo as concurrent inverse in group editors

Chengzheng Sun

December 2002 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(814.03 KB)

Additional Information: full citation, abstract, references,

As an important mechanism for error recovery and exploration of alternatives in interactive and have the capability of undoing any operation at any time. However, supporting undo in collabor none of the existing group undo solutions is able to offer such a capability. In this article, we cc group text editors. The basic idea is to interpret an u ...

Keywords: Group undo, REDUCE, collaborative applications, computer-supported cooperative maintenance, distributed systems, operational transformation

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18 American standard and IFIP / ICC vocabularies compared

J. F. Traub

June 1965 Communications of the ACM, Volume 8 Issue 6

Publisher: ACM Press

Full text available: pdf(502.28 KB) Additional Information: full citation, references, index terms

Digital Libraries for K-12 Education

Miriam J. Masullo

August 1994 ACM SIGOIS Bulletin, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(240.50 KB)

Additional Information: full citation

20 Users and interaction track: interacting in media: Addressing the challenge of visual inform

libraries

Michael G. Christel, Ronald M. Conescu

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(1.51 MB)

Additional Information: full citation, abstract, references,

While it would seem that digital video libraries should benefit from access mechanisms directed Retrieval Evaluation (TRECVID) research have shown that text search against transcript narrati even with visually oriented generic topics. A within-subjects study involving 24 novice participa result. The study shows that satisfaction is greater and performanc ...

Keywords: TRECVID results analysis, video retrieval

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